Module Title Drug discovery and design Module Code BMD371				
Credit Value 15 Level	6 Mode of Delivery	On Campus S	Semester Semester B	
Pre-requisite modules	Co-requisite modules	Overlapping module	s	
1) Content Description Provide a description of the mod System (approx. 70-80 words).	dule, as it will appear in the Mod	dule Directory and on t	the Student Information	
Students will be given an introduction new compounds and biologics with th efficacy. Students will develop the abi selectivity, pharmacokinetics, safety a	e potential to be drugs, and their dev lity to critique the different stages of	elopment for therapeutic u	use, and quantification of drug	
Lectures in specialised areas will be gir formal lectures, the course will provid guidance in developing their own idea	e tutorials with opportunities to critic		-	
2) Module Aims Specify the aims of the module,		-		
The module will aim to provide the discovery of new therapies, the prin and biologics with the potential to be	ciples of the screening cascade, and	analysis of the principles		
Provide knowledge of key principles of pharmacokinetics, pharmacodynamics, pharmacovigilance and rational drug use				
3) Learning Outcomes Identify the learning outcomes completion of this module. Outcomes Framework for Higher Education Level Descriptors for Further and also be used as a guiding frame	comes should be referenced to n Qualifications in England, Wa d Higher Education 2003 and Qu	the relevant QAA ben les and Northern Irela	nchmark statements and the nd (2008). The SEEC Credit	
* Textbook of drug design and discov	very, Fourth Edition, Edited by Povl K	rogsgaard-Larsen, Kristian	Stromgaard and Ulf Madsen,	

**Section 2 - Module Specification** 

CRC Press

Acad	Academic Content:					
A1	Gain a critical understanding into how pharmaceutical industry develops new drugs, drug screening technologies					
A2	Evaluate the nature of drug targets for both classical and biological agents.					
А3	Analysis of the methods for drug target discovery and validation: drug targets and their assessment of efficacy in the laboratory and in the clinic					
A4	Critique the role of pharmacogenetics in drug discovery and development and the use of animals in drug discovery and development					
A5	Evaluate and discuss drug-receptor interactions and the analysis and interpretation of those interactions					
Disci	plinary Skills - able to:					
B1	Critically evaluate published research studies					
B2	Present drug discovery scientific reports and present scientific data					
В3	Validate targets for new drugs based on a range of criteria					
Attributes:						
C1	Have the intellectual curiosity to learn continuously from diverse sources of information					
C2	Be able to explain complex scientific concepts clearly and logically					
C3	Make judgements based on evidence					
C4	Effective time management and independent learning					

### 4) Reading List

Provide an indicative reading list for the module. This should include key texts and/or journals but should not be an exhaustive list of materials.

Principles of early drug discovery. Hughes et al 2011, Br J Pharmacol 162, 1239-49

Provide details of the method of delivery (lectures, seminars, fieldwork, practical classes, etc.) used to enable the achievement of learning outcomes and an indicative number of hours for each activity to give an overall picture of the workload a student taking the module would be expected to undertake. This information will form the Key Information Set for each undergraduate programme and will be used to populate the KIS widget found on the QMUL programme information pages. More information can be found online about KIS. You may also wish to refer to the QAA guidance on contact hours when completing this section.

Activity Type	KIS Category	Time Spent (in hours)	

Lecture	Scheduled	20
Tutorial	Scheduled	4
Supervised time in studio/workshop	Scheduled	8
Guided independent study	Independent	118
Total		150

Specify the total module notional study hours. This should be a total of the hours given for each activity. The notional study hours for each academic credit point is 10. A 15 credit point module therefore represents 150 notional study hours.

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	32	21
Placement		
Independent Study	118	79
Total	150	100

Use the information provided in the box above to specify the total time spent and the percentage time spent in each category of teaching and learning activity.

## 6) Assessment Profile

Provide details of the assessment methods used to assess the achievement of learning outcomes.

Description of Assessment	Assessment Type	KIS Category	Duration / Length	% Weighting	Final element of assessment?	Mark
Examination	Written Exam	Written	3h	80%	Yes	
Coursework Essay	Coursework	Coursework	1,300 words	10%		
Presentation	Oral	Practical	15 min	10%		

**Qualifying mark**: A specified minimum mark that must be obtained in one or more elements of assessment in order to pass a module. This is in addition to, and distinct from, the requirement to achieve a pass in the module mark to pass the module.

#### Reassessment

Provide details of the reassessment methods used, specifying whether reassessment is either standard reassessment or synoptic reassessment.

<ul> <li>Standard Reassessment</li> </ul>	<ul> <li>Synoptic Reassessment</li> </ul>
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Synoptic reassessment details (if you have indicated synoptic reassessment above, please give details)

Assessment Type	Duration / Length of Examination / Coursework
Written Exam	3 hours
Essay	1,300 words
Presentation	15 min
	Written Exam Essay

## Section 3 - Alternative Assessment Arrangements for Associate Students

This section must only be completed if the module will be made available to associate students in Semester A and where the credit value of the "associate" version is the same as for the main version, and the main version is assessed by exam in May which is not available to the associate students. All other aspects of the module specification remain the same as indicated in Section 2 above. To add alternative assessment arrangements please click 'Add Alternative Assessment'.

# Section 4a - Half Module for Associate Students (for a half module to be taught in Semester A)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in <u>Semester A.</u> Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester A)'.

### Section 4b - Half Module for Associate Students (for a half module to be taught in Semester B)

This section must be completed if the proposed module will take place over 2 semesters but will be made available to single-semester associate students in a half-credit format in <u>Semester B.</u> Modules worth less than 30 credits taken over 2 semesters may not be made available in a half-credit format. To add details for the half module please click 'Add Half Module (Semester B)'.